

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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PATENT NO : 7,325,170
APPLICATION NO. : 10/804,290
ISSUE DATE : Jan. 29, 2008
INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 15, line 30, below "</html>"
insert - -

APPENDIX D

A portion of an embodiment of the device tester 304

```
#include <windows.h>
#include <tchar.h>
#include <stdlib.h>
#include <stdio.h>
#include <setupapi.h>
#include <cfgmgr32.h>
#include <string.h>
#include <malloc.h>
#include <newdev.h>

#define ARRAYSIZE(x) (sizeof(x)/sizeof(x[0]))
#define INSTANCEID_PREFIX_CHAR TEXT('@') // character used to prefix instance ID's
#define CLASS_PREFIX_CHAR TEXT('=') // character used to prefix class
name
#define WILD_CHAR TEXT('*') // wild character
#define QUOTE_PREFIX_CHAR TEXT('"') // prefix character to ignore wild
characters
```

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```
int EnumerateDevice();  
int removeDevice(char *devID);  
LPTSTR GetDeviceDescription(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo);  
  
BOOL DumpDeviceDescr(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo); BOOL  
DumpDeviceStatus(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo); BOOL  
DumpDeviceWithInfo(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo,LPCTSTR Info);  
  
#ifdef _UNICODE  
#define UPDATEDRIVERFORPLUGANDPLAYDEVICES  
"UpdateDriverForPlugAndPlayDevicesW"  
#else  
#define UPDATEDRIVERFORPLUGANDPLAYDEVICES  
"UpdateDriverForPlugAndPlayDevicesA"  
#endif  
  
//  
// exit codes  
//  
#define EXIT_OK (0)  
#define EXIT_REBOOT (1)  
#define EXIT_FAIL (2)  
#define EXIT_USAGE (3)
```

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```
typedef struct {  
    DWORD count;  
    DWORD control;  
    BOOL reboot;  
    LPCTSTR strSuccess;  
    LPCTSTR strReboot;  
    LPCTSTR strFail;  
}  
GenericContext;  
  
#define FIND_DEVICE      0x00000001 // display device  
#define FIND_STATUS      0x00000002 // display status of device  
#define FIND_RESOURCES   0x00000004 // display resources of device  
#define FIND_DRIVERS     0x00000008 // display drivers used by device  
#define FIND_HWIDS       0x00000010 // display hw/compat id's used by  
device  
#define FIND_DRIVERNODES 0x00000020 // display driver nodes for a device.  
  
Devcon.cpp  
=====  
#include "devcon.h"  
#include <string.h>  
  
FILE *stream;  
char *outfile;
```

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```
TCHAR      szBuffer [6000];

void EncodeXMLString(string szInput, string& szOutput)
{
    string strBuffer;
    size_t nFirstIndex;
    strBuffer = szInput;
    nFirstIndex = strBuffer.find(_T(">"), 0);
    while (nFirstIndex != string::npos)
    {
        strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("l")), _T("&gt;"));
        nFirstIndex = strBuffer.find(_T(">"), nFirstIndex+1);
    }
    nFirstIndex = strBuffer.find(_T("<"), 0);
    while (nFirstIndex != string::npos)
    {
        strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("l")), _T("&lt;"));
        nFirstIndex = strBuffer.find(_T("<"), nFirstIndex+1);
    }
    nFirstIndex = strBuffer.find(_T("")), 0);
```

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```
while (nFirstIndex != string::npos)
{
    strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("l")), _T("&apos;"));
    nFirstIndex = strBuffer.find(_T(""), nFirstIndex+1);
}
nFirstIndex = strBuffer.find(_T(""), 0);
while (nFirstIndex != string::npos)
{
    strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("l")), _T("&quot;"));
    nFirstIndex = strBuffer.find(_T(""), nFirstIndex+1);
}
nFirstIndex = strBuffer.find(_T("&"), 0);
while (nFirstIndex != string::npos)
{
    if (nFirstIndex != strBuffer.find(_T("&amp;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&gt;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&lt;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&apos;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&quot;"), nFirstIndex))
    {
        strBuffer = strBuffer.replace(nFirstIndex, 1, _T("&amp;"));
    }
    nFirstIndex = strBuffer.find(_T("&"), nFirstIndex+1);
}
szOutput = strBuffer;
} //EncodeXMLString
```

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```
LPTSTR GetDeviceStringProperty(HDEVINFO Devs,PSP_DEVINFO_DATA
DevInfo,DWORD
Prop)
{
    LPTSTR buffer;
    DWORD size;
    DWORD reqSize;
    DWORD dataType;
    DWORD szChars;
    size = 1024;
    buffer = new TCHAR[(size/sizeof(TCHAR))+1];
    if(!buffer)
    {
        return NULL;
    }
    while(!SetupDiGetDeviceRegistryProperty(Devs,DevInfo,Prop,&dataType,(LPBYTE)
buffer,size,&reqSize))
    {
        if(GetLastError() != ERROR_INSUFFICIENT_BUFFER) {
```

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```
        goto failed;
    }
    if(dataType != REG_SZ) {
        goto failed;
    }
    size = reqSize;
    delete [] buffer;
    buffer = new TCHAR[(size/sizeof(TCHAR))+1];
    if(!buffer) {
        goto failed;
    }
}
szChars = reqSize/sizeof(TCHAR);
buffer[szChars] = TEXT('\0');
return buffer;
failed:
    if(buffer) {
        delete [] buffer;
    }
    return NULL;
}
```

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```
LPTSTR GetDeviceDescription(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo) {
    LPTSTR desc;
    desc = GetDeviceStringProperty(Devs,DevInfo,SPDRP_FRIENDLYNAME);
    if(!desc) {
        desc = GetDeviceStringProperty(Devs,DevInfo,SPDRP_DEVICEDESC);
    }
    return desc;
}

void replaceStr(char *Str,char *newDevId, char ch)
{
    char *word;
    word = strtok(Str,"&");
    strcpy(newDevId,word);
    while(word!=NULL)
    {
        word = strtok(NULL,"&");
        if(word==NULL) break;
        strcat(newDevId,"&");
        strcat(newDevId,word);
    }
    return;
}
```

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```
BOOL DumpDeviceWithInfo(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo,LPCTSTR
Info) {
    TCHAR devID[MAX_DEVICE_ID_LEN];
    BOOL b = TRUE;
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    if(CM_Get_Device_ID(DevInfo-
>DevInst,devID,MAX_DEVICE_ID_LEN,0)!=CR_SUCCESS)
    {
        lstrcpy(devID,TEXT("?"));
        b = FALSE;
    }
    string szDevID=devID;
    string szOutputDevId;
    EncodeXMLString(szDevID,szOutputDevId);
    printf("\n%s",szOutputDevId.c_str());
    fprintf(stream,"\n\t\t<DeviceID>\"%s\"</DeviceID>",szOutputDevId.c_str());
    return b;
}
```

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```
BOOL DumpDeviceDescr(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo)
{
    LPTSTR desc;
    const int      iStringMaximumLength_c = 8048;
    WCHAR          szwBigBuffer[iStringMaximumLength_c];
    const int      iMaxEight_c = 10096;
    CHAR          szBigBuffer[iMaxEight_c];
    desc = GetDeviceDescription(Devs,DevInfo);
    if(!desc) {
        printf("\nDevice Description is not available for this device");
        return FALSE;
    }
    MultiByteToWideChar(CP_ACP, 0, desc, -1, szwBigBuffer,
sizeof(szwBigBuffer));
    WideCharToMultiByte(CP_UTF8, 0, szwBigBuffer, -1, szBigBuffer,
sizeof(szBigBuffer), NULL, NULL);
    fprintf(stream,"\n\\.\DeviceDescription>\\""%s\\</DeviceDescription>",szBigBu
ffer);
    printf("\n%s",desc);
    delete [] desc;
    return TRUE;
}

BOOL DumpDeviceStatus(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo)
{
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
```

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```
ULONG status = 0;
ULONG problem = 0;
BOOL hasInfo = FALSE;
    CMAPI CONFIGRET WINAPI CM_Get_DevNode_Status(OUT PULONG
pulStatus,OUT PULONG pulProblemNumber,IN DEVINST dnDevInst,IN ULONG ulFlags );
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    if(CM_Get_DevNode_Status(&status,&problem,DevInfo->DevInst,0)!=CR_SUCCESS)
    {
        return FALSE;
    }
    printf("\nError Code : %i",problem);
    fprintf(stream,"\n\t<ErrorCode>%i</ErrorCode>",problem);
    if((status & DN_HAS_PROBLEM) && problem == CM_PROB_DISABLED)
    {
        hasInfo = TRUE;
        printf("\n%s","Device is disabled");
        fprintf(stream,"\n\t<Status>\"%s\"</Status>","Device is disabled");
        return TRUE;
    }
    if(status & DN_HAS_PROBLEM)
    {
        hasInfo = TRUE;
        printf("\n%s","Device has a problem");
        fprintf(stream,"\n\t<Status>\"%s\"</Status>","Device has a problem");
    }
    if(status & DN_PRIVATE_PROBLEM)
```

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```
{
    hasInfo = TRUE;
    printf("\n%s", "Device has a problem reported by the driver");
    fprintf(stream, "\n\t\t<Status>\\"%s\\"\</Status>", "Device has a problem reported by
the driver");
}
if(status & DN_STARTED)
{
    printf("\n%s", "Device has been started");
    fprintf(stream, "\n\t\t<Status>\\"%s\\"\</Status>", "Device has been started");
}
else if (!hasInfo)
{
    fprintf(stream, "\n\t\t<Status>\\"%s\\"\</Status>", "Device is currently stopped");
    printf("\nDevice is currently stopped");
}
return TRUE;
}

int GetDeviceInfoAndDelete(char * devIDtoDelete)
```

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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PATENT NO : 7,325,170
APPLICATION NO. : 10/804,290
ISSUE DATE : Jan. 29, 2008
INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
{  
    HDEVINFO devs = INVALID_HANDLE_VALUE;  
    DWORD err;  
    int failcode = EXIT_FAIL;  
    DWORD devIndex;  
    SP_DEVINFO_DATA devInfo;  
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;  
    BOOL matchFound = FALSE;  
    SP_REMOVEDEVICE_PARAMS rmdParams;  
    LPCTSTR action = NULL;  
    TCHAR devID[MAX_DEVICE_ID_LEN];  
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);  
    printf("Device to be deleted is %s", devIDtoDelete);  
    devs = SetupDiGetClassDevs(  
    NULL,NULL,NULL,DIGCF_ALLCLASSES|DIGCF_PRESENT);  
    if(devs == INVALID_HANDLE_VALUE)  
    {  
        err = GetLastError();  
        printf( "SetupDiGetClassDevs failed: %lx.\n", err );  
        failcode=EXIT_FAIL;  
        goto final;  
    }  
}
```

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PATENT NO. : 7,325,170
APPLICATION NO. : 10/804,290
ISSUE DATE : Jan. 29, 2008
INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
devInfoListDetail.RemoteMachineHandle = NULL;
strcpy(devInfoListDetail.RemoteMachineName,"");
devInfoListDetail.cbSize = sizeof(devInfoListDetail);
devInfoListDetail.cbSize = sizeof(SP_DEVINFO_LIST_DETAIL_DATA);
devInfo.cbSize = sizeof(devInfo);
for(devIndex=0;SetupDiEnumDeviceInfo(devs,devIndex,&devInfo);devIndex++)
{
    if(CM_Get_Device_ID(devInfo.DevInst,devID,MAX_DEVICE_ID_LEN,0)!=CR_SUCCESS)
    {
        lstrcpy(devID,TEXT("?"));
    }
    printf("Dev ID for comparison is : %s\n",devID);
    if(strcmp(devID,devIDtoDelete)==0)
    {
        printf("\n match found");
        matchFound = TRUE;
        rmdParams.ClassInstallHeader.cbSize =
sizeof(SP_CLASSINSTALL_HEADER);
        rmdParams.ClassInstallHeader.InstallFunction =
DIF_REMOVE;
        rmdParams.Scope = DI_REMOVEDEVICE_GLOBAL;
        rmdParams.HwProfile = 0;
    }
    if(!SetupDiSetClassInstallParams(devs,&devInfo,&rmdParams.ClassInstallHeader
,sizeof(rmdParams)) ||!SetupDiCallClassInstaller(DIF_REMOVE,devs,&devInfo))
```

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PATENT NO : 7,325,170
APPLICATION NO. : 10/804,290
ISSUE DATE : Jan. 29, 2008
INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
        {
            failcode = EXIT_FAIL;
            goto final;
        }
        printf("\n\n Device has been deleted");
        break;
    }
}
// The device was deleted!!
if(matchFound == FALSE)
{
    printf("\n\n No matching device id found!!");
    failcode = EXIT_FAIL;
}
else
{
    failcode = EXIT_OK;
}
final:
if(devs != INVALID_HANDLE_VALUE) {
    printf("destorying DevsInfoList");
    SetupDiDestroyDeviceInfoList(devs);
    printf("After destorying DevsInfoList");
}
return failcode;
}
```

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PATENT NO : 7,325,170
APPLICATION NO. : 10/804,290
ISSUE DATE : Jan. 29, 2008
INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
int EnumerateDevice()
{
    HDEVINFO devs = INVALID_HANDLE_VALUE;
    DWORD err;
    int failcode = EXIT_FAIL;
    DWORD devIndex;
    SP_DEVINFO_DATA devInfo;
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
    DWORD numClass = 0;
    int skip = 0;
    devs = SetupDiGetClassDevs(
        NULL, NULL, NULL, DIGCF_ALLCLASSES | DIGCF_PRESENT);
    //devs = SetupDiGetClassDevs(
        NULL, NULL, NULL, DIGCF_ALLCLASSES | DIGCF_PROFILE);
    if(devs == INVALID_HANDLE_VALUE)
    {
        err = GetLastError();
        printf( "SetupDiGetClassDevsEx failed: %lx.\n", err );
        failcode= EXIT_FAIL;
    }
}
```

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PATENT NO : 7,325,170
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ISSUE DATE : Jan. 29, 2008
INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
        goto final;
    }
    devInfoListDetail.RemoteMachineHandle = NULL;
    strcpy(devInfoListDetail.RemoteMachineName, "");
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    devInfoListDetail.cbSize = sizeof(SP_DEVINFO_LIST_DETAIL_DATA);
    devInfo.cbSize = sizeof(devInfo);
    for(devIndex=0; SetupDiEnumDeviceInfo(devs, devIndex, &devInfo); devIndex++)
    {
        TCHAR devID[MAX_DEVICE_ID_LEN];
        if(CM_Get_Device_ID(devInfo.DevInst, devID, MAX_DEVICE_ID_LEN, 0) != CR_SUCCESS)
        {
            lstrcpy(devID, TEXT("?"));
        }
        // printf("Dev ID for comparison is : %s\n", devID);
        printf("\n\n");
        fprintf(stream, "\n\t<Device>");
        if(!DumpDeviceWithInfo(devs, &devInfo, NULL)) return EXIT_OK;
        DumpDeviceDescr(devs, &devInfo);
        DumpDeviceStatus(devs, &devInfo);
        fprintf(stream, "\n\t</Device>");
    }
```

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PATENT NO : 7,325,170
APPLICATION NO. : 10/804,290
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INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
}  
failcode = EXIT_OK;  
final:  
if(devs != INVALID_HANDLE_VALUE) {  
    SetupDiDestroyDeviceInfoList(devs);  
}  
return failcode;  
}  
  
int removeDevice(char *devID)  
{  
    printf("%s",devID);  
    return GetDeviceInfoAndDelete(devID);  
}  
  
int listDeviceStatus()  
{  
    int result;  
    if(outfile!=NULL)  
    {  
        stream = fopen(outfile, "w" );  
    }  
    else  
    {  
        stream = fopen("devlist.xml", "w" );  
    }  
}
```

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INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
    }  
        fprintf(stream,"<DeviceManager>");  
    result = EnumerateDevice();  
        fprintf(stream,"\n</DeviceManager>");  
        fclose( stream );  
        return result;  
    }  
  
void writeReturnCode(int code)  
{  
    FILE *Ostream;  
    Ostream = fopen( "DMStatus.out", "w" );  
    fprintf(Ostream,"%i",code);  
    fclose(Ostream);  
}  
  
void main(int argc,LPTSTR argv[])  
{  
    int retval;  
    if(argc<2)  
    {
```

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PATENT NO : 7,325,170
APPLICATION NO. : 10/804,290
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INVENTOR(S) : Karamadai Srinivasan, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
printf("Wrong arguments");  
writeReturnCode(3);  
exit(3);  
}  
if(strcmp(argv[1],"remove")==0)  
{  
    //Check if the id is specified  
    printf("calling remove device %s ", argv[2]);  
    if(argv[2]==NULL)  
    {  
        printf("Missing device id");  
        writeReturnCode(3);  
        exit(3);  
    }  
    retval = removeDevice(argv[2]);  
    writeReturnCode(retval);  
    exit(retval);  
}  
if(strcmp(argv[1],"status")==0)  
{  
    // if the out file name is specified  
    if(argc==3)  
    {  
        outfile =argv[2];  
    }  
}
```

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```
        printf("Calling status");  
        retval = listDeviceStatus();  
        writeReturnCode(retval);  
        exit(retval);  
    }  
    writeReturnCode(2);  
    exit(2);  
}
```

In column 16, line 2, in Claim 3, delete "Suitable" and insert - - suitable - -, therefor.

In column 16, line 52, in Claim 9, delete "deivce" and insert - - device - -, therefor.

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